

## WHAT IS CLAIMED IS

1. A water level detecting device for a percolator, said device comprising:

a pot body having a coffee powder container assembled on the topside, said pot body provided with a buoy device in the interior,  
5 said buoy device provided with a buoy rod, said buoy rod having a buoy fitted thereon, said buoy provided with a magnetic member:

a detecting device installed at the corresponding location of a power base and of said buoy device, a magnetic induction element serving as said detecting device: and

10 said buoy in said pot body able to move upward and downward together with the height of the water level of a water tank of said pot body, said detecting device interacting with said buoy to disconnect the electricity of the heater of said pot body when the water level of said water tank reaches a lowermost limit preset, said  
15 percolator thus able to cut off electricity automatically to ensure safety in use.

2. The water level detecting device for a percolator as claimed in Claim 1, wherein said detecting device is positioned on the outer wall of said pot body.

20 3. The water level detecting device for a percolator as claimed in Claim 1, wherein said detecting device is positioned in said buoy rod of said buoy device.

4. The water level detecting device for a percolator as claimed in Claim 1, wherein the magnetic induction element of said  
25 detecting device is a magnetic reed switch.

5. The water level detecting device for a percolator as claimed in Claim 1, wherein said magnetic induction element of said detecting device is a HALL IC.

6. The water level detecting device for a percolator as claimed  
5 in Claim 1, wherein a water level sensing element and a temperature fuse are provided under a heating board.

7. A water level detecting device for a percolator comprising:  
a pot body having a coffee powder container assembled on the  
topside, said pot body provided with a buoy device in the interior,  
10 said buoy device provided with a buoy rod, said buoy rod having a  
buoy fitted thereon, said buoy rod provided with an emitting or  
receiving element in the interior:

a detecting device installed at the opposite position of said  
power base and of said buoy device, a photoelectric element serving  
15 as said detecting device: and,

said buoy in said pot body able to move upward and downward  
together with the height of the water level of a water tank of said  
pot body, said detecting device interacting with said buoy to cut off  
the electricity of the heater of said pot body when the water level of  
20 said water tank reaches a lowermost limit preset, said percolator  
thus able to cut off electricity automatically to enhance safety in  
use.

8. The water level detecting device for a percolator as claimed  
in Claim 7, wherein said detecting device is installed on the outer  
25 wall of said pot body.

9. The water level detecting device for a percolator as claimed in Claim 7, wherein said photoelectric element of said detecting device is a ultra-red ray emitting/receiving element.

10. The water level detecting device for a percolator as  
5 claimed in Claim 7, wherein said photoelectric element of said detecting device is a photoelectric transistor.

11. The water level detecting device for a percolator as claimed in Claim 7, wherein said photoelectric element of said detecting device is a light sensitive resistor.